

SECTION 09260

GYPSUM BOARD ASSEMBLIES

LANL MASTER CONSTRUCTION SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the LEM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Metal stud wall framing.
- B. Metal channel ceiling framing.
- C. Gypsum board and joint treatment.
- D. Acoustic insulation.

1.2 SUBMITTALS

- A. Submit the following in accordance with Section 01330, Submittal Procedures:
 - 1. Catalog data on metal framing, gypsum board, joint tape, joint compound and texturing materials.
 - 2. Gypsum manufacturer's documentation of recycled content for gypsum board.
 - 3. Gypsum manufacturer's documentation of buyback and/or recycling program.
 - 4. Submit manufacturer's written certification that all materials are free of asbestos.
 - 5. Manufacturer's installation instructions.
 - 6. Twelve inch square sample of gypsum board with texture finish.

1.3 QUALITY ASSURANCE

- A. Perform work in accordance with ASTM C840, GA-201, GA-214, GA-216 and GA-600.

1.4 REGULATORY REQUIREMENTS

- A. Conform to UBC for fire rated assemblies as follows:
 - 1. Fire Rated Partitions: Listed assembly UL U465 for 1 hour rating, UL U411 for 2 hour rating.
 - 2. Fire Rated Ceiling [and Soffits]: Listed assembly UL. [edit as required]
 - 3. Fire Rated Shaft Walls: Listed assembly UL. [edit as required]

PART 2 PRODUCTS

2.1 PRODUCT OPTIONS AND SUBSTITUTIONS

- A. Comply with Section 01630, Product Options and Substitutions.

2.2 MANUFACTURERS

- A. Georgia Pacific Corp.
- B. National Gypsum Company.
- C. United States Gypsum Company.

2.3 FRAMING MATERIALS

- A. Studs and tracks conforming to ASTM C645 and GA-600; 25 gage galvanized sheet steel, C shape, with knurled faces.
- B. Furring, framing and accessories conforming to ASTM C645 and GA-600.
- C. Fasteners conforming to ASTM C514 and GA-216.
- D. Adhesive conforming to ASTM C557 and GA-216.

2.4 GYPSUM BOARD MATERIALS

- A. Recycled Content: Gypsum recycled content to be the greatest amount available, up to 28 percent post-industrial content. Subject to compliance with requirements, use synthetic (flue-gas) gypsum when available. Paper facing to be 100 percent post consumer recycled content. Fiber gypsum board shall consist of recycled newspaper and gypsum over recycled newspaper, gypsum and perlite core.
- B. Gypsum board conforming to ASTM C36 and ASTM E119, fire resistive, Type X, 5/8 inch thick, maximum practical length, with square cut ends and tapered edges.
- C. Moisture resistant gypsum board conforming to ASTM C630, 5/8 inch thick, maximum practical length, with square cut ends and tapered edges.
- D. Gypsum coreboard conforming to ASTM C442, 1 inch thick, maximum practical length, with square cut ends and tapered edges.

2.5 ACCESSORIES

- A. Acoustic insulation conforming to ASTM C665, preformed glass fiber batts, 3 1/2 inches thick, unfaced, friction fit type.
- B. Self-drilling, self-tapping screws, bolts, nuts and washers with hot dip galvanized finish.
- C. Corner beads of metal and paper construction.
- D. Edge bead conforming to ASTM C1047, GA-201 and GA-216.
- E. Joint materials conforming to ASTM C475, GA-201 and GA-216; reinforcing tape, joint compound, adhesive (all 100 percent asbestos free) and water.
- F. Latex based texture finish materials.

PART 3 EXECUTION

3.1 METAL STUD INSTALLATION

- A. Install studs at 16 inches on center, in accordance with manufacturer's instructions and ASTM C754.
- B. Refer to Drawings for locations of studding extending to the ceiling, through the ceiling, and to structure above.

3.2 ACOUSTICAL ACCESSORIES INSTALLATION

- A. Refer to Drawings for location of partitions with acoustical treatment.

- B. Install acoustic sealant at joint between gypsum board and floor, and to seal penetrations of partitions by conduit, pipe, ductwork, etc.
- C. Place acoustic insulation between studs, around cut openings, behind and around electrical and mechanical items within or behind partitions, and tight to items passing through partitions.

3.3 SHAFT WALL INSTALLATION

- A. Install in accordance with manufacturer's instructions to GA-600 requirements.

3.4 SUSPENDED CEILING GRILLAGE INSTALLATION

- A. Install grillage in accordance with ASTM C754.
- B. Suspend 1-1/2 inch furring channels from structural members with 8 gage wires at 48 inches on center, and within 6 inches of walls.
- C. Install furring channels at right angle to channels at 16 inches on center using formed clips.

3.5 GYPSUM BOARD INSTALLATION

- A. Install gypsum board in accordance with manufacturer's instructions.
- B. In non-fire rated partitions, erect single layers of gypsum board in most economical direction, with edges and ends occurring over firm bearing.
- C. In fire rated partitions erect single layer of gypsum board vertically, with edges and ends occurring over firm bearing.
- D. Install screws in accordance with manufacturer's instructions.
- E. In double layer installations, erect second layer perpendicular to first layer, secured to first layer with adhesive. Offset joints of second layer from joints of first layer.
- F. Treat cut edges and holes in moisture resistant gypsum board with sealant.
- G. Install corner beads at exterior corners. Install edge trim where gypsum board abuts dissimilar materials.

3.6 JOINT TREATMENT

- A. Tape, fill and sand exposed joints, edges and corners to produce smooth surface, ready for finish.
- B. Feather coats onto adjoining surfaces so that camber is maximum 1/32 inch.

3.7 TEXTURE FINISH

- A. Apply finish texture coating to attain a light sand finish.

3.8 TOLERANCES

- A. Maximum variation of finished gypsum board surface from true flatness is 1/8 inch in 10 feet in any direction.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Construction Specification Rev. [1],
Dated [August 21, 2002].